22/02/2005 ~~10257340~~ 10/643,747

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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 01	New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS	4	OCT 28	KOREAPAT now available on STN
NEWS	5	NOV 30	PHAR reloaded with additional data
NEWS	6	DEC 01	LISA now available on STN
NEWS	7	DEC 09	12 databases to be removed from STN on December 31, 2004
NEWS	8	DEC 15	MEDLINE update schedule for December 2004
NEWS	9	DEC 17	ELCOM reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	10	DEC 17	COMPUAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	11	DEC 17	SOLIDSTATE reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	12	DEC 17	CERAB reloaded; updating to resume; current-awareness alerts (SDIs) affected
NEWS	13	DEC 17	THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS	14	DEC 30	EPFULL: New patent full text database to be available on STN
NEWS	15	DEC 30	CAPLUS - PATENT COVERAGE EXPANDED
NEWS	16	JAN 03	No connect-hour charges in EPFULL during January and February 2005
NEWS	17	JAN 26	CA/CAPLUS - Expanded patent coverage to include the Russian Agency for Patents and Trademarks (ROSPATENT)
NEWS	18	FEB 10	STN Patent Forums to be held in March 2005
NEWS	19	FEB 16	STN User Update to be held in conjunction with the 229th ACS National Meeting on March 13, 2005

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
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* * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 03:05:04 ON 22 FEB 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 03:05:11 ON 22 FEB 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 20 FEB 2005 HIGHEST RN 834857-08-8
DICTIONARY FILE UPDATES: 20 FEB 2005 HIGHEST RN 834857-08-8

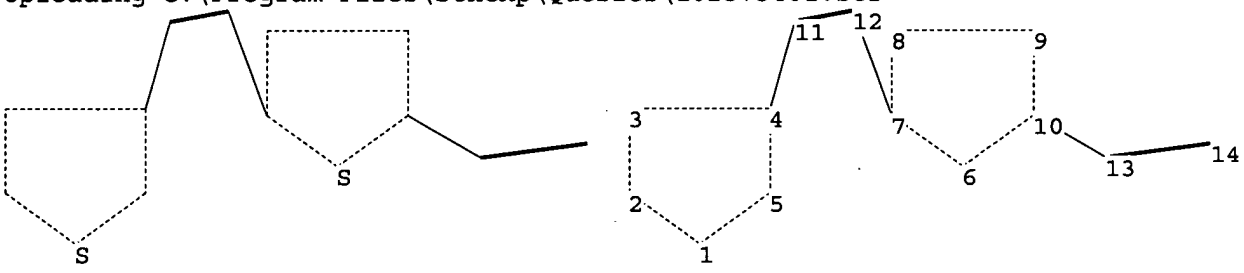
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\102573401.str



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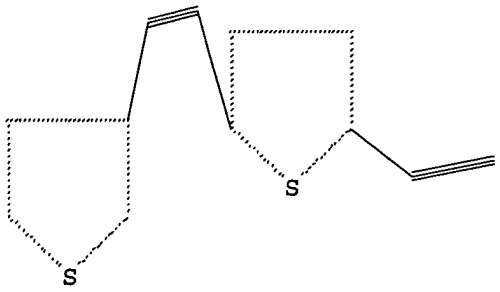
11 12 13 14
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
4-11 7-12 10-13 11-12 13-14
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact bonds :
4-11 7-12 10-13 11-12 13-14

isolated ring systems :
containing 1 : 6 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 14 TO ITERATE

100.0% PROCESSED 14 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 56 TO 504
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 03:05:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 300 TO ITERATE

100.0% PROCESSED 300 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L3 0 SEA SSS FUL L1

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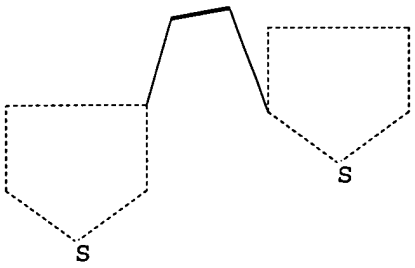

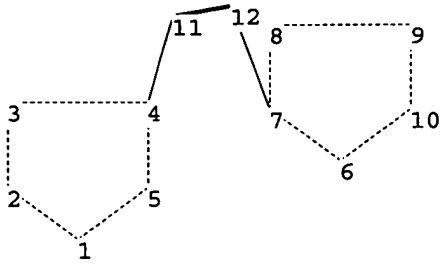

chain nodes :
11 12
ring nodes :
1 2 3 4 5 6 7 8 9 10
chain bonds :
4-11 7-12 11-12
ring bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact/norm bonds :
1-2 1-5 2-3 3-4 4-5 6-7 6-10 7-8 8-9 9-10
exact bonds :
4-11 7-12 11-12
isolated ring systems :
containing 1 : 6 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS

L4 STRUCTURE UPLOADED

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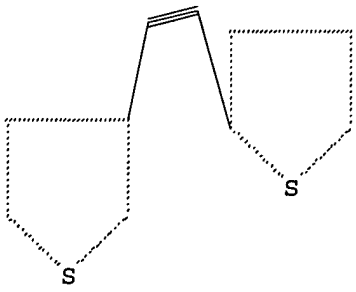
L4 HAS NO ANSWERS
L4 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 26 TO ITERATE

22/02/2005 10257249

100.0% PROCESSED 26 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 215 TO 825
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L4

=> s l5 full
FULL SEARCH INITIATED 03:07:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 432 TO ITERATE

100.0% PROCESSED 432 ITERATIONS 24 ANSWERS
SEARCH TIME: 00.00.01

L6 24 SEA SSS FUL L4

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 323.52 323.73

FILE 'CAPLUS' ENTERED AT 03:07:24 ON 22 FEB 2005
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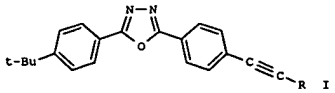
FILE COVERS 1907 - 22 Feb 2005 VOL 142 ISS 9
FILE LAST UPDATED: 21 Feb 2005 (20050221/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l6
L7 10 L6

=> d ibib abs hitstr tot

L7 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:947945 CAPLUS
DOCUMENT NUMBER: 142:93751
TITLE: Ethynyl π-extended 2,5-diphenyl-1,3,4-oxadiazoles and 2-phenyl 5-(2-thienyl)-1,3,4-oxadiazoles: synthesis, X-ray crystal structures and optical properties
AUTHOR(S): Hughes, Gregory; Kreher, David; Wang, Changsheng; Batsanov, Andrei S.; Bryce, Martin R.
CORPORATE SOURCE: Department of Chemistry, University of Durham, Durham, DH1 3LE, UK
SOURCE: Organic & Biomolecular Chemistry (2004), 2(22), 3363-3367
CODEN: OBCRAK; ISSN: 1477-0520
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



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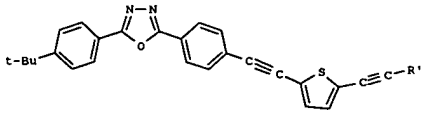
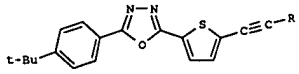
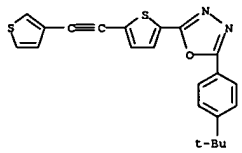


V



VI

AB 2-(4-Tert-Butylphenyl)-5-(4-ethynylphenyl)-1,3,4-oxadiazole (I, R = H) reacted with a series of heteroaryl iodides under standard Sonogashira cross-coupling conditions to yield products I [R = 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrazyl (II), 5-bromo-2-pyrimidyl, 2-thienyl (III) and 3-thienyl (IV)] in 40-79% yields. Compound III was lithiated followed by electrophilic iodination using perfluorohexyl iodide to give the corresponding iodothienyl deriv., which by a two-step sequence gave the terminal ethynylthienyl deriv. V (R' = H) . Conversion of V into the terminal ethynylaldehyde deriv. V (R' = CHO) via acetal deriv. proceeded in high yield. Starting from 2-iodo-5-methoxycarbonylthiophene, a five-step sequence afforded 2-(4-tert-butylphenyl)-5-(4-ethynylthienyl)-1,3,4-oxadiazole (VI, R = H) (13% overall yield). Sonogashira cross-coupling reactions of VI with heteroaryl iodides gave 2-phenyl-5-(2-thienyl)-1,3,4-oxadiazoles VI (R = 2-pyridyl, 3-pyridyl, 4-pyridyl, 2-pyrazyl (VII), 5-bromo-2-pyrimidyl, 2-thienyl and 3-thienyl).
Two-fold reaction of V with 2,5-diiodothiophene gave the bis(ethynylthienyl)thiophene deriv. (30% yield). Soln. UV-Vis absorption and photoluminescence spectra establish that replacement of the Ph ring in
the 2,5-diphenyl-1,3,4-oxadiazole series I by a thienyl ring as in VI leads to a red shift in the lowest energy band in both the absorption spectra and emission spectra. The X-ray crystal structures of compds. II,
IV, V and VII·CHCl3 reveal that the mol. structures are approx. planar although there are substantial differences in the conformations.
IT **819863-94-0P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and optical property of phenyl(heteroarylethynylthienyl)oxadiaz
oles via Sonogashira coupling of phenyl(ethynylthienyl)oxadiazoles with
heteroaryl iodides)
RN 819863-94-0 CAPLUS
CN 1,3,4-Oxadiazole, 2-[4-(1,1-dimethylethyl)phenyl]-5-[5-(3-thienylethynyl)-2-thienyl]- (9CI) (CA INDEX NAME)

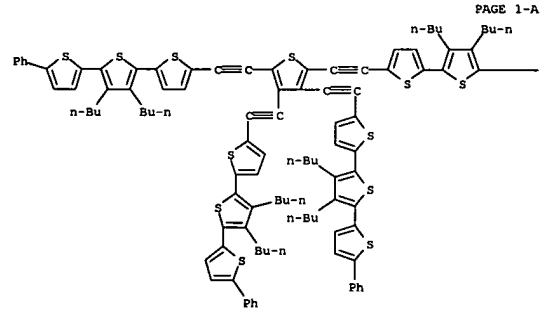


REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

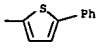
L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:482446 CAPLUS
DOCUMENT NUMBER: 141:190426
TITLE: Exploration of the electronic structure of dendrimer-like acetylene-bridged oligothiophenes by correlating Raman spectroscopy, electrochemistry, and theory
AUTHOR(S): Casado, Juan; Pappenfus, Ted M.; Mann, Kent R.; Hernandez, Victor; Lopez Navarrete, Juan T.
CORPORATE SOURCE: Department of Physical Chemistry, University of Malaga, Malaga, 29071, Spain
SOURCE: Journal of Chemical Physics (2004), 120(24), 11874-11881
CODEN: JCPSA6; ISSN: 0021-9606
PUBLISHER: American Institute of Physics
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A series of radial thiophene-based structures consisting of a central benzene or thiophene ring surrounded by acetylene-bridged terthienyl arms has been investigated by phys. and theor. methods. Fourier transform Raman spectroscopy of the neutral solids shows that the terthiophene arms are weakly coupled across the core (benzene plus acetylene groups) likely due to cross-conjugation or meta-conjugation effects that may prevent full
delocalization. By increasing the number of arms around the central ring,
the electronic structure of the mols. seems to be affected only at the core, whereas the outer terthiophene arms remain almost unaltered. Raman spectroelectrochem. and quantum chemical calcns. provide further insight into
the charge delocalization of the oxidized species. There is no evidence to suggest that these oxidized forms, obtained upon electrochem. doping of
the mols., show charge delocalization across the core.
IT **462092-81-5**
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); PROC (Process); RACT (Reactant
or reagent)
(electronic structure of dendrimer-like acetylene-bridged oligothiophenes)
RN 462092-81-5 CAPLUS
CN 2,2':5',2''-Terthiophene, 5,5''',5''''''',5'''''''''''-(2,3,4,5-thiophenetetrayltetra-2,1-ethynediyl)tetrakis[3',4'-dibutyl-5''-phenyl- (9CI) (CA INDEX NAME)

L7 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

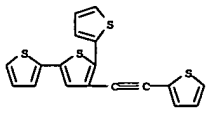
L7 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:72026 CAPLUS
DOCUMENT NUMBER: 138:255614
TITLE: Polyterthiophene Appended by Organomolybdenum Sulfide Cluster: Electrochemical Synthesis and Electrochemical Properties of Poly[Mo2(μ-C5H5)2(μ-η2:η2-SC(R):C S[C4HS(C4H3S-2)2-2,5]]2]s
AUTHOR(S): Kim, Dong Hyun; Kim, Joo-Hwan; Kim, Tae Ho; Kang, Dong Min; Kim, Yong Hwan; Shim, Yoon-Bo; Shin, Sung Chul
CORPORATE SOURCE: Department of Chemistry, Gyeongsang National University, Jinju, 660-701, S. Korea
SOURCE: Chemistry of Materials (2003), 15(4), 825-827
CODEN: CMATEX; ISSN: 0897-4756
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Polythiophene hybrids were synthesized by electrochem. polymerization of monomer clusters of formula [(CpMo)2[SC(R):CS[C4HS(C4H3S-2)2-2,5]]2]s, where R = H, Ph, Bu, thienyl, tolyl. The monomer clusters were prepared by the reaction of 3'-(alkynyl)-2,2':5',2''-terthiophenes with (CpMo)2(SC3H6S)2 in CH2Cl2 and isolated as reddish brown solids by column chromatog. in 15-46 % yield. The crystal structure of the clusters was elucidated; e.g., the atomic connection of the phenyl-cluster has a syn isomer in terthienyl/terthienyl orientation around Mo. Cyclic voltammograms (CV) of the clusters in CH2Cl2 containing 0.1 M tetrabutylammonium phosphate (TBAP) show chemical reversibility for generation of the Mo+ and Mo2+ species and an irreversible wave at 1.30 - 1.41 V assigned to oxidation of terthienyl moiety, i.e., electrochem. polymerization Polythiophene clusters were prepared by potential cycling on Pt disk electrodes or ITO coated glass electrodes in CH2Cl2 containing 0.1 M TBAP at 0.0 to 1.5 V and scan rate 100 mV s-1. The polythiophene clusters show color switching between brown (neutral) and gray (oxidized) states, a unique electrochromism distinguishable from that of thiophene-based conducting polymers. Such unique electrochromism is attributed to electronic synergistic interactions between Mo sulfide cluster units and the polythiophene π-backbone.

IT **502962-87-0P**, 3'-(2-Thienylethynyl)-2,2':5',2''-terthiophene
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of terthiophene molybdenum sulfide cluster monomers and electrooxidative polymerization producing conducting electrochromic polythiophenes)

RN 502962-87-0 CAPLUS
CN 2,2':5',2''-Terthiophene, 3'-(2-thienylethynyl)- (9CI) (CA INDEX NAME)

L7 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

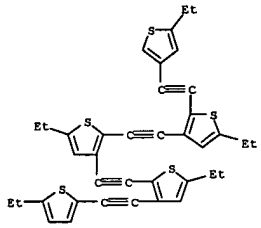
L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:955957 CAPLUS
DOCUMENT NUMBER: 138:154084
TITLE: Photoexcitation and Electron Transfer Properties of Rod- and Coil-Type Oligo(thienylene-ethynylene)s
AUTHOR(S): Fujitsuka, Mamoru; Makinoshima, Takashi; Ito, Osamu; Obara, Yuko; Aso, Yoshio; Otsubo, Tetsuo
CORPORATE SOURCE: Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Sendai, 980-8577, Japan
SOURCE: Journal of Physical Chemistry B (2003), 107(3), 739-746
CODEN: JPCBFK; ISSN: 1520-6106
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Photoexcitation and electron-transfer properties of two series of oligo(thienylene-ethynylene)s, in which thiophene rings were connected with ethynylene groups at 2,5 or 2,3 positions (nαTE or nβTE; n denotes the number of the repeating unit), have been studied. From MO calcns. and steady-state absorption spectra, expanded π-electron systems were expected for rod-type nαTE in the ground states, while limited π-electron systems were expected for coil-type nβTE. On the other hand, because nβTE shows a substantial red shift of the fluorescence band similar to that of nαTE with increasing n value, a conformational change expanding π-conjugation of nβTE was suggested in the excited state. From the picosecond laser flash photolysis, the time scale for the conformational change was evaluated to be ca. 30 ps. The triplet state properties of nαTE and nβTE were estimated by means of the nanosecond laser flash photolysis. Furthermore, electron donor abilities of the present oligomers were investigated by studying the photoinduced electron-transfer processes with fullerenes, C60 and C70. It was revealed that the present oligomers donate an electron to the triplet excited C60 or C70 generating the radical cations and anions of oligomers and fullerene, resp. The electron-transfer rate consts. were as small as 0.07-0.0008 of the diffusion-controlled limit, indicating the longer range electron-transfer processes due to larger size of the oligomers and fullerenes. On the other hand, back-electron-transfer processes proceeded at the diffusion-limiting rate.

IT **383176-57-6 383176-59-8 383176-60-1**
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(photoexcitation and electron transfer properties of rod- and coil-type oligo(thienylene-ethynylene)s)

RN 383176-57-6 CAPLUS
CN Thiophene, 5-ethyl-2-[[5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-thienyl]ethynyl]-3-[[5-ethyl-3-[(5-ethyl-2-thienyl)ethynyl]-2-thienyl]ethynyl]- (9CI) (CA INDEX NAME)

L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 383176-59-8 CAPLUS
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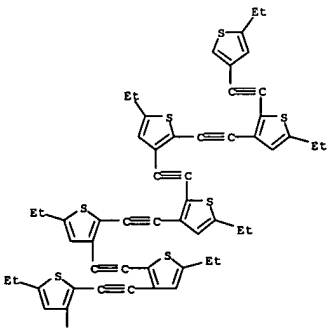
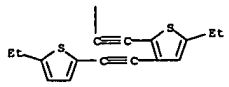
PAGE 1-A



L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 2-A



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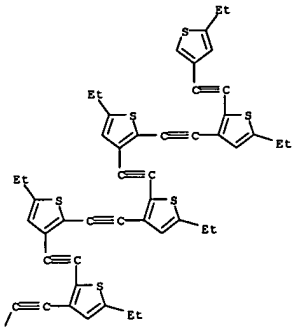
PAGE 1-A



L7 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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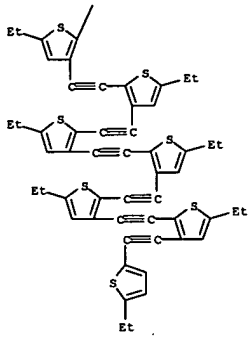


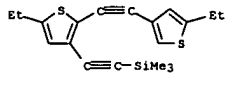
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:595917 CAPLUS
DOCUMENT NUMBER: 137:279554
TITLE: Synthesis and properties of coil-shaped 2,3-thienylene-ethynylene oligomers
AUTHOR(S): Aso, Yoshio; Obara, Yuko; Okai, Takashi; Nishiguchi, Shoji; Otsubo, Tetsuo
CORPORATE SOURCE: Faculty of Engineering, Hiroshima University, Higashi-Hiroshima, 739-8527, Japan
SOURCE: Molecular Crystals and Liquid Crystals Science and Technology, Section A: Molecular Crystals and Liquid Crystals (2002), 376, 153-158
CODEN: MCLCE9; ISSN: 1058-725X
PUBLISHER: Taylor & Francis Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

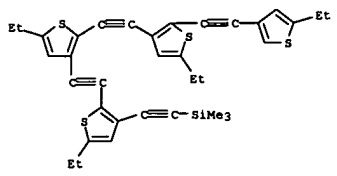
AB A series of 2,3-thienylene-ethynylene oligomers have been synthesized by repeated application of the Pd-catalyzed coupling reaction of terminal alkyne and thienyl iodides as the key building steps. The anal. GPC mol. wts., much deflated relative to the actual mol. wts., strongly suggest a coil shape for the conformation of the oligomers in solution Their electronic absorption and emission spectral features are discussed.

IT **467251-58-7P 467251-59-8P 467251-60-1P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(Pd-catalyzed coupling synthesis and solution coil chain conformation of 2,3-thienylene-ethynylene oligomers)

RN 467251-58-7 CAPLUS
CN Silane, [[5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-thienyl]ethynyl]trimethyl- (9CI) (CA INDEX NAME)

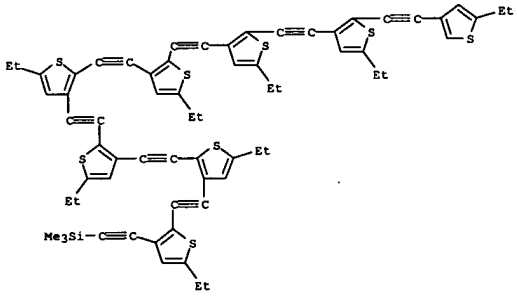


RN 467251-59-8 CAPLUS
CN Silane, [[5-ethyl-2-[[5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]trimethyl- (9CI) (CA INDEX NAME)



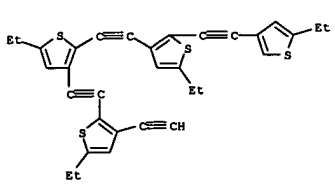
L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

RN 467251-60-1 CAPLUS
CN Silane, [[5-ethyl-2-[[5-ethyl-2-[[5-ethyl-2-[[5-ethyl-2-[[5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]trimethyl- (9CI) (CA INDEX NAME)



IT **383176-54-3P 383176-55-4P 467251-54-3P 467251-55-4P 467251-57-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(coupling component; Pd-catalyzed coupling synthesis and solution coil chain conformation of 2,3-thienylene-ethynylene oligomers)

RN 383176-54-3 CAPLUS
CN Thiophene, 5-ethyl-3-[[5-ethyl-3-[(5-ethyl-3-ethynyl-2-thienyl)ethynyl]-2-thienyl]ethynyl]-2-[(5-ethyl-3-thienyl)ethynyl]- (9CI) (CA INDEX NAME)



RN 383176-55-4 CAPLUS
CN Thiophene, 5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-

L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
ethynyl-2-thienyl)ethynyl]-2-thienyl]ethynyl]-2-thienyl]ethynyl]-2-

thienyl]ethynyl]-2-[[5-ethyl-2-[[5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]- (9CI) (CA INDEX NAME)

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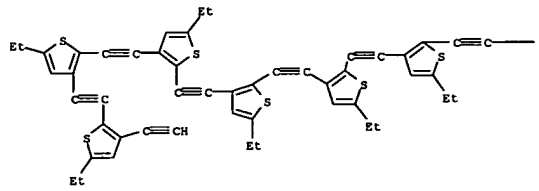

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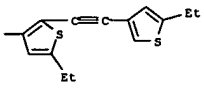
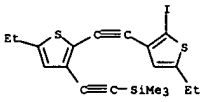
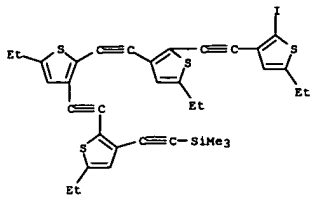


RN 467251-54-3 CAPLUS
CN Silane, [[5-ethyl-2-[(5-ethyl-2-iodo-3-thienyl)ethynyl]-3-thienyl]ethynyl]trimethyl- (9CI) (CA INDEX NAME)

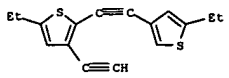


RN 467251-55-4 CAPLUS
CN Silane, [[5-ethyl-2-[[5-ethyl-2-[[5-ethyl-2-[(5-ethyl-2-iodo-3-thienyl)ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]-3-thienyl]ethynyl]trimethyl- (9CI) (CA INDEX NAME)

L7 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



RN 467251-57-6 CAPLUS
CN Thiophene, 5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-ethynyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:572214 CAPLUS
DOCUMENT NUMBER: 137:263399
TITLE: Synthesis and Characterization of Radial Oligothiophenes: A New Class of Thiophene-Based Conjugated Homologues
AUTHOR(S): Pappenfus, Ted M.; Mann, Kent R.
CORPORATE SOURCE: Department of Chemistry, University of Minnesota, Minneapolis, MN, 55455, USA
SOURCE: Organic Letters (2002), 4(18), 3043-3046
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A series of thiophene-based homologues with an aromatic core surrounded by
terthiophene "arms" with acetylene linkages has been synthesized by using Sonogashira coupling methods. The homologues were investigated spectroscopically in solution and in the solid state. They display extended
π-conjugation through the aromatic core that affects the strong emission and redox properties.
IT **462092-81-5P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and electronic spectra and cyclic voltammetry characterization
of)
RN 462092-81-5 CAPLUS
CN 2,2':5',2''-Terthiophene, 5,5''',5''''''',5'''''''''-(2,3,4,5-thiophenetetrayltetra-2,1-ethynediyl)tetrakis[3',4'-dibutyl-5''-phenyl- (9CI) (CA INDEX NAME)

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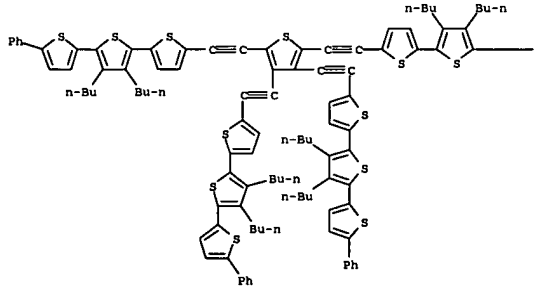
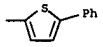


L7 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
PAGE 1-B

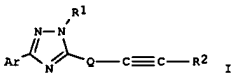


REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE
FORMAT

L7 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:123597 CAPLUS
DOCUMENT NUMBER: 136:146541
TITLE: Preparation of 1,2,4-triazole derivatives as insecticides or acaricides and processes
INVENTOR(S): Hegde, Vidyadhar Babu; Bis, Scott Jerome; Heo, Emilie Chassat; Hamilton, Christopher Thomas; Johnson, Peter Lee; Karr, Laura Lee; Martin, Timothy Patrick; Neese, Paul Allen; Orr, Nailah; Tisdell, Francis Eugene; Yap, Maurice Chee Hoong; Zhu, Yuanming
PATENT ASSIGNEE(S): Dow Agrosciences LLC, USA
SOURCE: U.S. Pat. Appl. Publ., 29 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2002019370	A1	20020214	US 2001-834845	20010413
US 6417187	B2	20020709		
PRIORITY APPLN. INFO.:			US 2000-197179P P	20000414

OTHER SOURCE(S): MARPAT 136:146541
GI



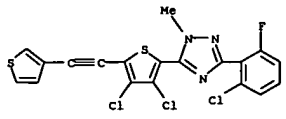
I

AB 3-(Substituted aryl)-5-(substituted aryl(alkynylaryl))-[1,2,4]triazole compds. I [Ar = alkyl, (un)substituted Ph or pyridyl; R1 = alkyl, cycloalkyl or substituted Ph; Q = (un)substituted Ph, thienyl or pyridyl; R2 = H, alkyl, alkenyl, etc.] are useful as insecticides and acaricides. New synthetic procedures and intermediates for preparing the compds., pesticide compns. containing the compds., and methods of controlling insects and mites using the compds. are also provided.

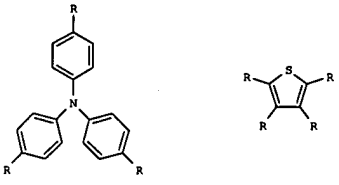
IT **395081-96-6P**
RL: AGR (Agricultural use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation as insecticide and acaricide)

RN 395081-96-6 CAPLUS
CN 1H-1,2,4-Triazole, 3-(2-chloro-6-fluorophenyl)-5-[3,4-dichloro-5-(3-thienylethynyl)-2-thienyl]-1-methyl- (9CI) (CA INDEX NAME)

L7 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)



L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:878954 CAPLUS
DOCUMENT NUMBER: 136:200259
TITLE: Star-shaped polyferrocenes based on thiophene and triphenylamine: synthesis, spectroscopy and electrochemistry
AUTHOR(S): Thomas, K. R. Justin; Lin, Jiann T.
CORPORATE SOURCE: Institute of Chemistry, Academia Sinica, Nankang, Taipei, 115, Taiwan
SOURCE: Journal of Organometallic Chemistry (2001), 637-639, 139-144
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier Science S.A.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:200259
GI



I

II

AB Star-shaped tri- (I, R = C.tplbond.CXFc, Fc = ferrocenyl, X = spacer = none, CH:CHC6H4-4-, CH:CH-2-thien-5-yl) and tetra-ferrocenes (II) anchored on triphenylamine or thiophene cores were obtained by cross-coupling reactions of Fc-X-C.tplbond.CH with tris(p-iodophenyl)amine or tetrabromothiophene, resp., catalyzed by Pd(PPh3)2Cl2/CuI/PPh3/Et2NH in moderate to good yields. These polymetallic systems were characterized by NMR, UV-visible and mass spectral methods, elemental analyses and by electrochem. studies. As observed earlier for tris(ferrocenyl)benzenes, these complexes also lack electronic communication, however, a thorough anal. indicates an existence of electronic charge delocalization between the ferrocenyl moiety and the central core.

IT **401837-77-2P**
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation, UV-visible and electrochem. data of)

RN 401837-77-2 CAPLUS
CN Ferrocene, 1,1'',1'''',1''''''-[2,3,4,5-thiophenetetrayltetrakis[2,1-ethynediyl-5,2-thiophenediyl-(1E)-2,1-ethenediyl]]tetrakis- (9CI) (CA INDEX NAME)

L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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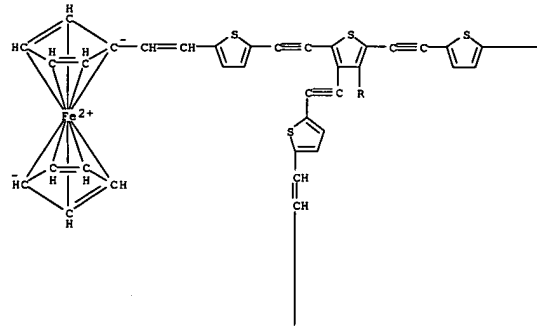

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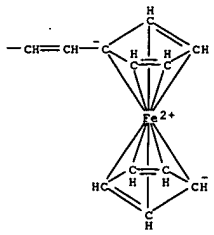

L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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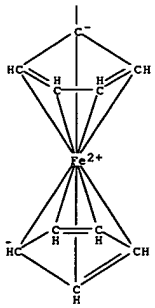
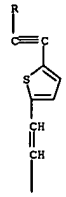


PAGE 3-A



L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:674529 CAPLUS
DOCUMENT NUMBER: 136:53649
TITLE: Synthesis and photophysical properties of [60]fullerene-oligo(thienylene-ethynylene) dyads
AUTHOR(S): Obara, Y.; Takimiya, K.; Aso, Y.; Otsubo, T.
CORPORATE SOURCE: Graduate School of Engineering, Department of Applied Chemistry, Hiroshima University, Kagamiyama, Higashi-Hiroshima, 739-8527, Japan
SOURCE: Tetrahedron Letters (2001), 42(39), 6877-6881
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:53649

AB Two series of [60]fullerene-linked oligo(2,3- and 2,5-thienylene-ethynylene)s have been synthesized to elucidate their photophys. characteristics. Their fluorescence spectra in toluene reveals distinct photoinduced intramol. interactions between the oligomers and C60, which occur in a through-space fashion for the 2,3-thienylene-ethynylene system and in a through-bond fashion for the 2,5-thienylene-ethynylene system.

IT **383176-43-0P 383176-44-1P 383176-46-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and photophys. properties of [60]fullerene-oligo(thienylene-ethynylene) dyads)

RN 383176-43-0 CAPLUS
CN 2'H-[5,6]Fullereno-C60-Ih-[1,9-c]pyrrole, 2'-[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-2-thienyl)ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]-1',5'-dihydro-1'-methyl- (9CI) (CA INDEX NAME)

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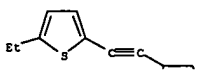
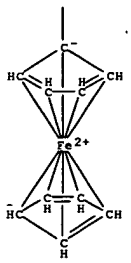


L7 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 4-A



REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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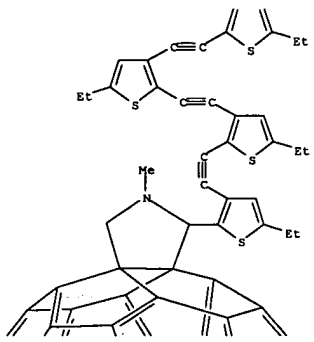

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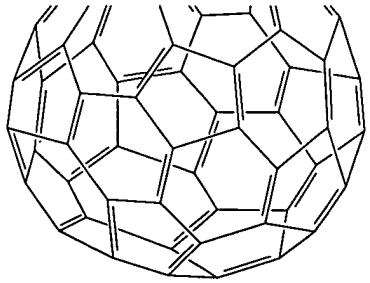

RN 383176-44-1 CAPLUS
CN 2'H-[5,6]Fullereno-C60-Ih-[1,9-c]pyrrole, 2'-[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-

L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
ethyl-2-thienyl)ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]-1',5'-dihydro-1'-methyl- (9CI) (CA INDEX NAME)

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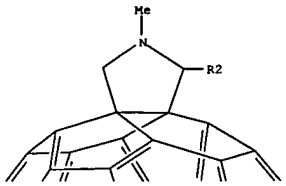
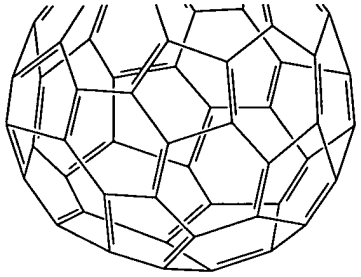


L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 2-A



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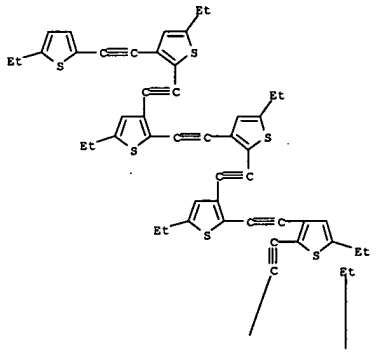

L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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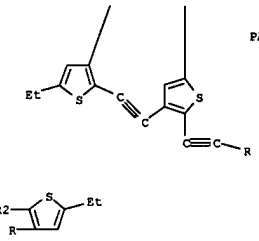
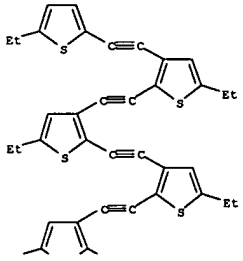


RN 383176-46-3 CAPLUS
CN 2'H-[5,6]Fullereno-C60-Ih-[1,9-c]pyrrole, 2'-[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[[5-ethyl-3-[(5-ethyl-2-thienyl)ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]ethynyl]-2-thienyl]ethyl]-2-thienyl]-1',5'-dihydro-1'-methyl- (9CI) (CA INDEX NAME)

PAGE 1-A



L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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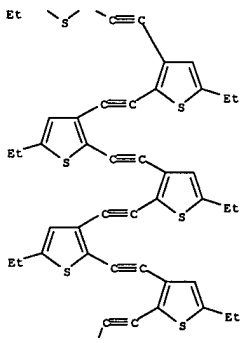

L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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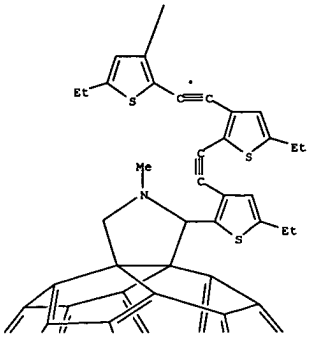

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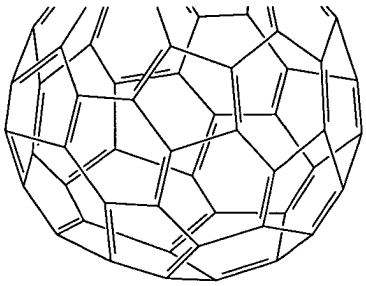
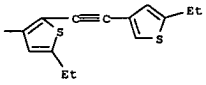


IT **383176-54-3 383176-55-4 383176-56-5**

L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

PAGE 1-B



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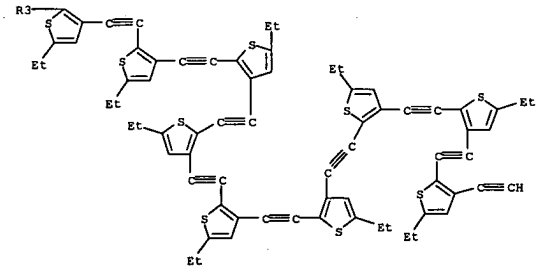
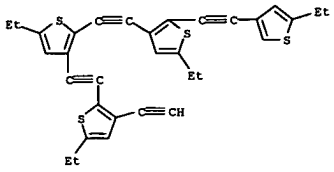


L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and photophys. properties of [60]fullerene-oligo(thienylene-ethynylene) dyads)
RN 383176-54-3 CAPLUS
CN Thiophene, 5-ethyl-3-[[5-ethyl-3-[(5-ethyl-3-ethynyl-2-thienyl)ethynyl]-2-thienyl]ethynyl]-2-[[5-ethyl-3-thienyl)ethynyl]- (9CI) (CA INDEX NAME)



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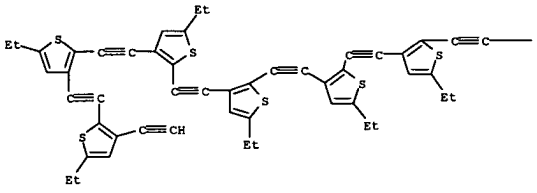

L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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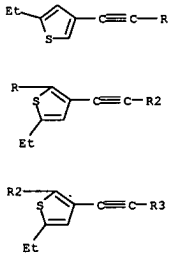
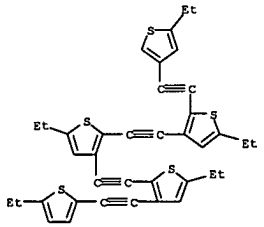


IT **383176-57-6P 383176-59-8P 383176-60-1P 383176-61-2P 383176-62-3P 383176-63-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and photophys. properties of [60]fullerene-oligo(thienylene-ethynylene) dyads)
RN 383176-57-6 CAPLUS
CN Thiophene, 5-ethyl-2-[[5-ethyl-2-[(5-ethyl-3-thienyl)ethynyl]-3-thienyl]ethynyl]-3-[[5-ethyl-3-[(5-ethyl-2-thienyl)ethynyl]-2-thienyl]ethynyl]- (9CI) (CA INDEX NAME)



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L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)
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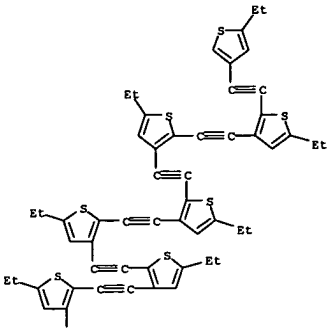

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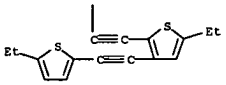

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L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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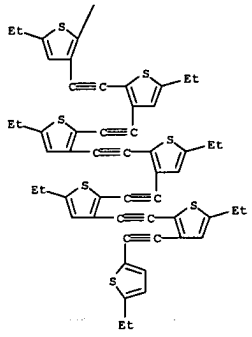

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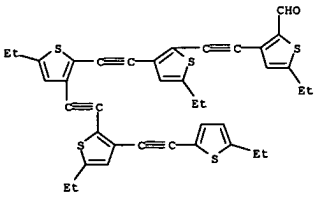

RN 383176-62-3 CAPLUS
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L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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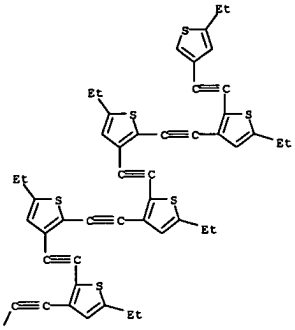

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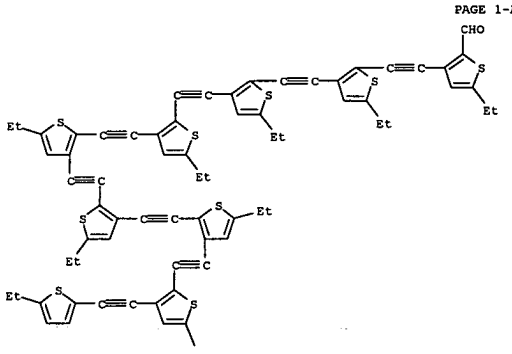

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RN 383176-63-4 CAPLUS
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L7 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN (Continued)

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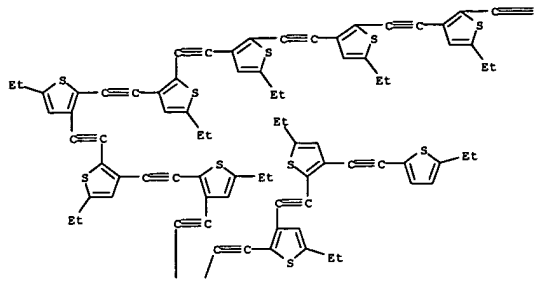

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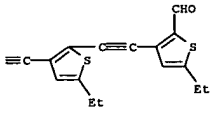

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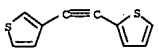
L7 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:644532 CAPLUS
DOCUMENT NUMBER: 127:331111
TITLE: Synthesis and electronic structure of 1,2-heteroarylethynes: potential monomers for low bandgap conductive polymers
AUTHOR(S): Ng, S. C.; Novak, I.; Wang, L.; Huang, H. H.; Huang, W.
CORPORATE SOURCE: Department of Chemistry, National University of Singapore, Singapore, 119260, Singapore
SOURCE: Tetrahedron (1997), 53(39), 13339-13350
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB A series of 1,2-heteroarylethynes which are potential monomers to low bandgap materials were synthesized and their He I photoelectron spectra measured and assigned with the aid of empirical arguments and semi-empirical MO calcns. The electronic structure anal. reveals that C.tplbond.C bond is an efficient relay of π-electrons and that it supports inter-ring conjugation. The efficiency depends on the nature of ring heteroatom, but not on its position within the ring. The importance of C.tplbond.C bond relay is discussed in the broader context of conjugated polymer applications.
IT **197957-63-4P**, 2,3'-Bisthienylethyne
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and photoelectron spectra of 1,2-heteroarylethynes)
RN 197957-63-4 CAPLUS
CN Thiophene, 2-(3-thienylethynyl)- (9CI) (CA INDEX NAME)



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22/02/2005 [redacted]

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